

DEPARTMENT OF ENGINEERING DESIGN &

AIA – IITM CENTRE OF EXCELLENCE FOR INDUSTRIAL AUTOMATION, IIT MADRAS

SHORT Training Course on

Industrial Automation and Mechatronics

13th to 18th October 2014

SCHEDULE

Venue: Conference Room, Engineering Design, IIT Madras /AIA-IITM CoE

	9.00 -9.30AM	9.30 -11.00	11.15 - 12.45	12.45 - 2.00 PM	2.00-3.00PM	3.15 -5.15 PM	
Date							
13 th Oct. 2014	Registration & Inauguration:	Factory and Facility Automation: Moving up from Shop Floor to Supervisory Control (TA)	Mechatronic Systems in Automation: Fundamentals (PLCs, application) (NJ V)	LUNcheon Break	Industrial Sensors and their interfacing - (P&F)	Industrial Sensors and their interfacing (P&F) Practicals	
14 th Oct. 2014	Quiz (TA)	Control System for Automation (Arun Tangriala, IITM)	Generic Motion Control implementations (B&R Automation)		Operations Visibility: HMI design and interfacing (B&R)	Lab Session- B&R	
15 th Oct. 2014	Quiz (TA)	Pneumatic and Hydraulic actuators (FESTO)	Smart Instrumentation and Process Automation (AIA)		Building upon the PLC network for facility SCADA (SIEMENS)	Lab. Session: PLC, SCADA, integration with sensors and actuators FESTO - SIEMENS	

16 th Oct. 2014		Electromechanical Linear actuators and Selection criteria for Industrial Automation (Parker Hannifin)	Advanced PLC functions, IEC programming Communication Protocols Selection Criteria IITM/AIA		Linking Machine Excellence with Integrated Automation Understanding' - teaching strategies and relevant case studies. Sunil Jha: IIT Delhi	Lab. Session/Lab visits	
17 th Oct. 2014		Digital Manufacturing: Seamless Factory Automation Siemens	Robotic Work cells and applications in Industry (PARI Robotics)		Industry VISIT		
18 th Oct. 2014		System Integration: Challenges in automation system realisation AIA	System Integration: Case Studies AIA		Automation for Growth: Academic and Industrial Strategies (Vivekanadah, Titan)	Valedictory Function	

Faculty

IITM Faculty

TA: Dr. T Asokan

NJV: Dr. N J Vasa

AIA: Automation Industry Association